COMBINED DECLARATION AND POWER OF ATTORNEY FOR UTILITY PATENT APPLICATION

Attorney's Docket No.

030673-138

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As a below-named inventor, I hereby declare that:	
My residence, post office address and citizenship are as st	ated below next to my name;
I BELIEVE I AM THE ORIGINAL, FIRST AND SOL ORIGINAL, FIRST AND JOINT INVENTOR (if more the WHICH IS CLAIMED AND FOR WHICH A PATENT IS	E INVENTOR (if only one name is listed below) OR AN han one name is listed below) OF THE SUBJECT MATTER SOUGHT ON THE INVENTION ENTITLED:
A METHOD OF MANUFACTURING A RIGID INTER	NAL GEAR OF A WAVE GEAR DEVICE
the specification of which	
(check one)	is attached hereto;
	was filed on April 9, 2002 as
	Application No.
	and was amended on;
	(if applicable)
I HAVE REVIEWED AND UNDERSTAND THE CONTINCLUDING THE CLAIMS, AS AMENDED BY ANY A	TENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, AMENDMENT REFERRED TO ABOVE;
I ACKNOWLEDGE THE DUTY TO DISCLOSE TO TH MATERIAL TO PATENTABILITY AS DEFINED IN TI (as amended effective March 16, 1992);	E OFFICE ALL INFORMATION KNOWN TO ME TO BE TLE 37, CODE OF FEDERAL REGULATIONS, Sec. 1.56

I do not know and do not believe the said invention was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to said application; that said invention was not in public use or on sale in the United States of America more than one year prior to said application; that said invention has not been patented or made the subject of an inventor's certificate issued before the date of said application in any country foreign to the United States of America on any application filed by me or my legal representatives or assigns more than twelve months prior to said application;

I hereby claim foreign priority benefits under Title 35, United States Code Sec. 119 and/or Sec. 365 of any foreign application(s) for patent or inventor's certificate as indicated below and have also identified below any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application(s) on which priority is claimed:

COMBINED DECLARATION AND POWER OF ATTORNEY

Attorney's Docket No.

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Deston N. Mandetes 19,832 Benton S. Duffert, J. 20,932 Benton S. Duffert, J. 20,932 Robert S. Krebs R						1 030073-130		
I Japan JP2001-109759 09 April 2001 YES X. NO YES_NO I hereby appoint the following attorneys and agent(s) to prosecute said application and to transact all business in the Pa and Trademark Office connected therewith and to file, prosecute and to transact all business in connection with internal applications directed to said invention: William L. Mathis 17,337 Eric H. Weisblatt 30,505 Bruse T. Wieder 31,4 Robert S. Swecker 19,885 James W. Peterson 26,037 Todd R. Walters 344, Robert S. Swecker 19,885 James W. Peterson 26,037 Todd R. Walters 344, Robert S. Swecker 19,885 James W. Peterson 20,427 Ronnis S. Jillions 134, Robert G. Rodfett, Jr. 22,030 William C. Rowland 30,888 March R. Brown II 344, Norman H. Stepno 22,716 William C. Rowland 30,888 Brian P. O'Shunghnessy 36, Ronald L. Grudziecki 24,970 T. Gene Dillahunty 25,423 Brian P. O'Shunghnessy 36, Roder G. Michaud, Jr. 26,003 Patrick C. Kenne 32,838 Kenneth B. Leffler Prod. G. Michaud, Jr. 26,003 Patrick C. Kenne 32,838 Kenneth B. Leffler Sandal C. Miller, III 27,300 William H. Benn 25,952 Wendi L. Weinstein 34, Robert G. Mishai 28,531 Richard J. M. Grath 320,335 Wendi L. Weinstein 34, Robert G. Mishai 28,531 Richard J. M. Grath 320,335 Wendi L. Weinstein 34, Robert G. Mishai 28,531 Richard J. M. Grath 320,335 Wendi L. Weinstein 34, Robert G. Mishai 28,531 Gerald F. Swiss 30,113 Walter M. Schmidter 22,814 Mark R. Kresloff 42, James A. LaBare 28,632 Michael G. Swage 32,596 Michael G. Swage 32,596 Res 23,510 Gerald F. Swiss 30,113 Walter M. Benn 27,903 Charles F. Wieland III 33,096 Walter R. Kresloff 42, James A. LaBare 28,632 Michael G. Swage 32,596 Res 32,510 Gerald F. Swiss 30,113 Walter M. Grath 30,113 Walter M. Robert G. Walter R. Kresloff 42, James A. LaBare 28,632 Michael G. Swage 32,596 Res 32,510 Gerald F. Swiss 30,113 Walter M. Grath 41,114 Walter M. Walter M. Grath 41,114 Walter M. Walter M. Grath 41,114 Walter M. Walter M. Walter M. Walter M. Walter M. Walte	COUNTRY/INTERNA	TIONAL	APPLICATIO	N NUMBER				
I hereby appoint the following attorneys and agent(s) to prosecute said application and to transact all business in the Pa and Trademark Office connected therewith and to file, prosecute and to transact all business in connection with internal applications directed to said invention: William L. Mathis 17,337 Brie H. Weisblatt 20,505 Bruse T. Winder 33, Robert S. Swecker 19,825 Jamet W. Peterson 26,057 Todd R. Walters 34, Robert S. Swecker 19,825 Jamet W. Peterson 26,057 Todd R. Walters 34, Robert S. Swecker 19,825 Jamet W. Peterson 26,057 Todd R. Walters 34, Robert S. Swecker 19,825 Jamet W. Peterson 26,057 Todd R. Walters 34, Robert S. Milliam C. Rowland 30,838 Allea R. Bown 11 Sepace 22,116 William C. Rowland 30,838 Allea R. Bown 11 Sepace 22,116 William C. Rowland 30,838 Allea R. Bown 11 Sepace 22,116 William C. Rowland 30,838 Allea R. Bown 11 Sepace 22,116 William C. Rowland 30,838 Allea R. Bown 11 Sepace 22,116 William C. Rowland 30,838 Allea R. Bown 12 Sepace 22,116 William C. Rowland 30,838 Allea R. Bown 12 Sepace 22,116 William C. Rowland 30,838 Allea R. Bown 36, Rengeth 1, 25,813 Particle C. Kene 22,835 Rengeth 1, 25,813 Richard J. McGrath 29,157 Donna M. Mouth 24, Robert G. Multai 22,513 Richard J. McGrath 29,195 Donna M. Meuth 24, James A. LaBarre 23,612 Mathew L. Schneider 23,814 Mathew 1, 25,815 Mathew L. Schneider 23,814 Mathew R. Schneider 23,814 Mathew R. Schneider 23,814 Mathew R. Schneider 30,813 James A. LaBarre 23,612 Mathew L. Schneider 30,813 Mathew R. Schneider 30,813 James A. LaBarre 23,612 Mathew R. Schneider 30,813 James 30,813 James A. LaBarre 23,612 Mathew R. Schneider 30,813 James 30,813 J	Japan		JP2001-	109759		09 April 2001		
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Frederick G. Michaud, Jr. 26,003 Patrick C. Keane 32,835 Remail S. Maller B. Schopeki Alan E. Kopeki 25,813 B. Jefferson Boggs, Jr. 32,344 Regis E. Slutter 26,999 William H. Benz 25,952 Werd I. Wichwell 32, Regis E. Slutter 26,999 William H. Benz 25,952 Werd I. Wichwell 34, Regis E. Slutter 26,999 William H. Benz 25,952 Werd I. Wichwell 34, Regis E. Slutter 26,999 William H. Benz 25,952 Werd I. Wichwell 34, Regis E. Slutter 26,099 William H. Benz 25,952 Werd I. Wichwell 34, Regis E. Slutter 32, 814 Mary Ann Dillakunty 34, Robert G. Mukai 22,531 Richard J. McGrath 29,195 Donna M. Menth 34, George A. Hovanec, Jr. 28,223 Matchew I. Schneider 32,814 Mark R. Kreshoff 42,7 James A. LaBarre 28,632 Michael G. Savage 32,596 Gess 28,510 Gerald F. Swiss 30,113 R. Danny Huntington 27,903 Charles F. Wieland III 33,096 Z1839 and: Address all correspondence to: William C. Rowland Burns, Doane, Swecker & Mathis, L. L. P. P.O. Box 1404 Alexandria, Virginia 22313-1404 Address all telephone calls to: William C. Rowland and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the Unit States Code and that such willful false statements may jeopardize the validity of the application or any patent issued the FULL NAME OF SOLE OR FIRST INVENTOR SIGNATURE Masaru KOBAYASHI May 16, 20 CTILZENSHIP Japanese FULL NAME OF SECOND JOINT INVENTOR, IF ANY SIGNATURE DATE May 16, 20 CTILZENSHIP Japanese CTILZENSHIP Ja	applications directed to said William L. Mathis Robert S. Swecker Platon N. Mandros Benton S. Duffett, Jr. Norman H. Stepno	17,337 19,885 22,124 22,030 22,716	Eric H. Weisblat James W. Petersa Teresa Stanek Re Robert E. Krebs William C. Rowl	t on a	30,505 26,057 30,427 25,885 30,888	Bruce T. Wieder Todd R. Walters Ronni S. Jillions Harold R. Brown Allen R. Baum	business in the ction with in	33,815 34,040 31,979 36,341 36,086
Address all correspondence to: William C. Rowland BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404 Alexandria, Virginia 22313-1404 Address all telephone calls to: William C. Rowland at (703) 836-66. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on informa and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the Unit States Code and that such willful false statements may jeopardize the validity of the application or any patent issued the FULL NAME OF SOLE OR FIRST INVENTOR Masaru KOBAYASHI Masaru KOBAYASHI Masaru KOBAYASHI Nagano-ken, JAPAN POST OFFICE ADDRESS C/O Harmonic Drive Systems Inc., Hotaka-kojo, 1856-1, Oaza Maki, Hotaka-machi, Minamiazumi-gun, Nagano-ken, 399-8305 JAPA FULL NAME OF SECOND JOINT INVENTOR, IF ANY SIGNATURE Yoshihiro TANIOKA RESIDENCE Nagano-ken, JAPAN CITIZENSHIP Japanese CITIZENSHIP Nagano-ken, JAPAN	Frederick G. Michaud, Jr. Alan E. Kopecki Regis E. Slutter Samuel C. Miller, III Robert G. Mukai George A. Hovanec, Jr. James A. LaBarre E. Joseph Gess	26,003 25,813 26,999 27,360 28,531 28,223 28,632 28,510	Patrick C. Keane B. Jefferson Bogg William H. Benz Peter K. Skiff Richard J. McGr Matthew L. Schn Michael G. Savag Gerald F. Swiss	gs, Jr. ath eider ge	32,858 32,344 25,952 31,917 29,195 32,814 32,596 30,113	Kenneth B. Leffl Fred W. Hathaw Wendi L. Weinst Mary Ann Dillah Donna M. Meuth Mark R. Kreslof	er ay ein unty F	32,747 36,075 32,236 34,456 34,576 36,607 42,766
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on informa and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the Unit States Code and that such willful false statements may jeopardize the validity of the application or any patent issued the FULL NAME OF SOLE OR FIRST INVENTOR SIGNATURE Masaru KOBAYASHI RESIDENCE Nagano-ken, JAPAN POST OFFICE ADDRESS C/O HARMONIC Drive Systems Inc., Hotaka-kojo, 1856-1, Oaza Maki, Hotaka-machi, Minamiazumi-gun, Nagano-ken, 399-8305 JAPA FULL NAME OF SECOND JOINT INVENTOR, IF ANY SIGNATURE Yoshihiro TANIOKA RESIDENCE CITIZENSHIP Nagano-ken, JAPAN Japanese CITIZENSHIP Nagano-ken, JAPAN Japanese CITIZENSHIP Japanese CITIZENSHIP Japanese CITIZENSHIP Japanese	Address all correspondence to: William C. Rowland BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404 Alexandria, Virginia 22313-1404							
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c/o Harmonic Drive Systems Inc., Hotaka-kojo, 1856-1, Oaza Maki, Hotaka-machi, Minamiazumi-gun, Nagano-ken. 39948305 JAPA		· · · · · · · · · · · · · · · · · · ·					- their	
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AUGUST 08, 2002

PTAS

BURNS, DOANE, SWECKER ET AL. WILLIAM C. ROWLAND P.O. BOX 1404 ALEXANDRIA, VA 22313-1404

Chief Information Officer Washington, DC 20231 www.uspto.gov



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/05/2002

REEL/FRAME: 012962/0426

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KOBAYASHI, MASARU

DOC DATE: 05/15/2002

ASSIGNOR:

TANIOKA, YOSHIHIRO

DOC DATE: 05/16/2002

ASSIGNEE:

HARMONIC DRIVE SYSTEMS INC. 25-3, MINAMIOI 6-CHOME, SHINAGAWA-TOKYO 140-0013, JAPAN

030673-138

SERIAL NUMBER: 10117993

PATENT NUMBER:

FILING DATE: 04/09/2002

ISSUE DATE:

Votoraux ? Co. BUHNS, DOANE, SWECKER & MATHIS, L.L.P.

SAUNDRA BALLENGER, EXAMENER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORD

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FORM PTO-1595 (Rev. 6/93)

06-11-2002



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office ET

Attorney's Docket No. 030672 120

RANCHA	Attorney's Docket 140, <u>030073-138</u>		
	Please record the attached original documents or copy thereof.		
1. Name of conveying party(ies): 6.5.02	2. Name and address of receiving party(ies):		
Masaru Kobayashi and Yoshihiro Tanioka	Name: Harmonic Drive Systems Inc.		
Additional name(s) of conveying party(ies) attached? [] Yes [X] No	Address: 25-3, Minamioi 6-chome, Shinagawa-ku,		
3. Nature of conveyance:	Tokyo, 140-0013 JAPAN		
[X] Assignment [] Merger [] Change of Name			
Other:			
Execution Date: <u>05/15/02 and 05/16/02</u>	Additional name(s) & address(es) attached? [] Yes [X] No		
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application, th	e execution date of the application is:		
A. Patent Application No.(s) B. Patent No.(s)			
10/117,993			
Additional numbers attack	ned? [] Yes [X] No		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One (1)		
Name: William C. Rowland	7. Total fee (37 CFR § 3.41): \$_40.00		
Address: Burns, Doane, Swecker & Mathis, L.L.P.			
P.O. Box 1404	[X] Enclosed		
Alexandria, Virginia 22313-1404	[X] Authorized to be charged to deposit account, if necessary		
, 6	8. Deposit account number:		
	02-4800		
DO NOT USE	THIS SPACE		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true as William C. Rowland, R.N. 30.888 Name of Person Signing	ond correct and any attached copy is a true copy of the original document. 6.5-02 Signature Date		
T	otal number of pages including cover sheet, attachments, and document: 3		
Mail documents to be recorded with r	equired cover sheet information to		

Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231

06/10/2002 TDIAZ1

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Attorney's	Docket	No.

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by MASARU KOBAYASHI, and YOSHIHIRO TANIOKA, residing at NAGANO-KEN, JAPAN and NAGANO-KEN, JAPAN (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in <u>A METHOD OF MANUFACTURING A RIGID INTERNAL GEAR OF A WAVE GEAR DEVICE</u> set forth in an application for Letters Patent of the United States,

- - (a) Dearing Application No. _, and filed on _;
 - (b) □ to be filed herewith; or
- (2) ⊠ which is a non-provisional application
 - (a) bearing Application No. 6/117, 993, and filed on APRIL 9, 2002;
 - (b) ☐ having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) \square having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, <u>HARMONIC DRIVE SYSTEMS INC.</u>, a corporation duly organized under and pursuant to the laws of <u>JAPAN</u> and having its principal place of business at <u>25-3</u>, <u>MINAMIOI 6-CHOME</u>, <u>SHINAGAWA-KU</u>, <u>TOKYO</u>, <u>140-0013 JAPAN</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

Application No.		
Attorney's Docket	No.	030673-138

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall or Patents, or any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P. of Alexandria, Virginia to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date May 15, 2002 Signature of Assignor Masaru Kobayashi Masaru KOBAYASHI

Date May 16 · 2002 Signature of Assignor Joshihiro Tanioka Yoshihiro TANIOKA